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Morbidity and Mortality

Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the **COMMUNICABLE DISEASE CENTER** 634-5131

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED AUGUST 1, 1964

TULAREMIA

A total of 9 cases of tularemia was reported for the week ended August 1. This brings to 197 the cumulative total for 1964. For the comparable period of 1963, 170 cases were reported. Weekly reporting of cases began in 1962; these cases and the annual totals for the past 5 years are shown in the accompanying table.

The 4 States in the West South Central region account for 66 cases (34 percent of the national total). Arkansas has reported 37 of these cases; this total is the highest for any State. Missouri has the second highest State total, 22 cases.

To date, cases have been reported in all but the New England, Middle Atlantic and Pacific regions.

During this time of year, the majority of the cases occur following tick bites; in the fall and winter, most cases result from handling infected rabbits.

Cumulative Cases Through 31st Week

1964	1963	1962	1961	1960
197	170	177	NR	NR
Annual Totals				
298*	328	365	390	

* Provisional total
NR - not reported

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	31st Week Ended		Median 1959 - 1963	Cumulative, First 31 Weeks		
	August 1, 1964	August 3, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis	42	47	---	969	856	---
Brucellosis	6	10	14	241	216	368
Diphtheria	1	2	9	159	151	340
Encephalitis, primary infectious ..	42	31	---	1,149	943	---
Encephalitis, post-infectious	22		---	627		---
Hepatitis, infectious including serum hepatitis	535	682	694	24,215	26,800	26,802
Measles	1,744	1,807	2,074	429,428	352,595	380,528
Meningococcal infections	43	33	33	1,734	1,618	1,507
Poliomyelitis, Total	3	9	35	62	146	362
Paralytic	2	8	26	49	121	256
Nonparalytic	-	1	---	9	16	---
Unspecified	1	-	---	4	9	---
Streptococcal Sore Throat and Scarlet fever	3,911	3,333	---	271,396	232,721	---
Tetanus	8	5	---	151	145	---
Tularemia	9	9	---	197	170	---
Typhoid fever	11	15	18	245	252	406
Rabies in Animals	69	61	62	2,821	2,379	2,377

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis: Mass-1, Mich-1, Tenn-1, Calif-1	23
Botulism:	10	Rabies in Man:	-
Leptospirosis: N.Y. Up-State - 1	24	Smallpox:	-
Malaria: N.J. - 1	51	Typhus-	-
Plague:	-	Murine: Ala-1	15
		Rky Mt. Spotted: Pa-2, NC-2, Ohio-4, Va-4, WVa-1,	119
		Okla-1	

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PERCENT DISTRIBUTION OF POST-INFECTIOUS ENCEPHALITIS DUE TO MUMPS, MEASLES AND OTHER OTHER CAUSES IN 1964, BY MONTH*

	MUMPS		MEASLES		OTHER		TOTAL CASES
	CASES	PERCENT TOTAL	CASES	PERCENT TOTAL	CASES	PERCENT TOTAL	
JANUARY	26	84	3	10	2	6	31
FEBRUARY	40	77	6	11	6	11	52
MARCH	39	57	19	27	11	16	69
APRIL	68	49	51	36	21	15	140
MAY	60	50	46	39	13	11	119
JUNE	63	54	26	22	28	24	117
CUMULATIVE TOTAL	296	56	151	29	81	15	528

* Includes revised and delayed reports.

POST-INFECTIOUS ENCEPHALITIS - JUNE

A total of 117 cases of post-infectious encephalitis was reported for the 4-week period ended June 27 (see table above). This brings to 528 the cumulative total of post-infectious encephalitis cases reported for the first half of 1964.

The totals for the previous 5 months, including delayed and revised reports, are shown in the table below. (For earlier reports, see MMWR, Vol. 13, pp 46, 102, 143, 177 and 219.) Mumps and measles continued to account for a large majority of the cases reported, with mumps the chief inciting cause in 54 percent of the cases reported in June.

A comparison of the cases attributed to mumps, measles and other causes is presented by month in the table below.

There were 12 cases of post-chickenpox encephalitis reported; 6 were from California. Chickenpox accounts for 8 percent of the 1964 cumulative total. The monthly incidence in 1964 follows:

January	February	March	April	May	June
1	3	6	15	5	12

The 12 cases of post-rubella encephalitis reported during June are just one less than the total number reported for the first 5 months of 1964. Thus far, rubella accounts for 5 percent of the cumulative total. A table of rubella cases reported by month in 1964 follows:

January	February	March	April	May	June
0	2	3	5	3	12

Four cases were reported from Illinois and 3 from Arkansas; these represent the first cases reported from the East North Central and West South Central States this year.

REPORTED CASES OF POST-INFECTIOUS ENCEPHALITIS FOR JUNE
4 WEEKS ENDING 6/6, 6/13, 6/20, 6/27

REPORTING AREA	REPORTED PRIMARY INFECTION									
	Mumps	Chickenpox	Measles	Rubella	Influenza	Herpes Simplex	Respiratory Syncytial	Vaccinia	Pertussis	
NEW ENGLAND										
Rhode Island	1									
Connecticut					1					
MIDDLE ATLANTIC										
New York Up-State	5	1	3	2					1	
Pennsylvania	3	1	1	3						
EAST NORTH CENTRAL										
Illinois	12	1	4	4						
Michigan	1									
WEST NORTH CENTRAL										
Minnesota	7									
SOUTH ATLANTIC										
Virginia	2	3	3							
South Carolina	2									
EAST SOUTH CENTRAL										
Tennessee	1		2							
WEST SOUTH CENTRAL										
Arkansas				3						
Texas	1		1							
PACIFIC										
Washington	4				1					
Oregon			1							
California	23	6	11			1				
Hawaii	1									
U. S. TOTAL	63	12	26	12	2	2				
U. S. CUMULATIVE TOTAL through 6/27	296	42	151	25	7	4	1	1	1	1

(States not reporting a case not listed)

MALARIA - Illinois

Plasmodium falciparum malaria was diagnosed in a 52-year-old Chicago microbiologist, who acquired the disease while travelling in Africa during January and February 1963. The patient arrived in Uganda January 19, and began prophylactic atabrine on an irregular schedule on January 22.

For the next 4 weeks, he camped and travelled through Uganda, Kenya, Tanganyika, Northern and Southern Rhodesia, Zanzibar, and the Union of South Africa. He returned to the United States via Iran, Israel, Jordan, Lebanon, Italy, and Greece, arriving in New York City February 18. He was asymptomatic throughout this period.

He resumed work on return to the United States, but 3 days later, February 21, he noted a severe headache, nausea and fever on awakening in the morning. Later, he vomited and experienced epigastric and right upper abdominal quadrant pain. The initial clinical impression was "flu." Because of the persistence of these symptoms and a fever which spiked to 103° for 3 successive days, he was hospitalized February 25. Malaria was diagnosed on peripheral blood smear.

During hospitalization, the patient's course was complicated by hemolytic anemia, severe bone marrow depression, and acute renal shutdown, requiring hemodialysis. The patient was treated with chloroquine, and he has recovered without known sequelae.

P. falciparum was diagnosed on blood smears submitted to the National Malaria Slide Repository, Communicable Disease Center.

(Reported by Norman J. Rose, M.D., Chief, Bureau of Epidemiology, Illinois Department of Public Health, and Harry B. Harding, M.D., Clinical Microbiologist, Evanston.)

Editor's Note: This case of malaria is a sharp reminder of the necessity of starting proper prophylactic anti-malarials before travelling in a malarious region, and rigidly continuing such therapy while in danger of such exposure.

SALMONELLOSIS - California

From 5½ to 36 hours after sharing a common meal, June 23, all 10 individuals experienced symptoms of gastroenteritis in an outbreak of salmonellosis. The patients were aged 2 to 65 and involved members of 3 families. They experienced vomiting, abdominal cramps, diarrhea and slight fever for an average of 4 days. All recovered after hospitalization. The incubation period and severity of illness correlated with the amount of the suspect food eaten. The menu consisted of fried chicken, gravy, canned creamed corn, green salad with mayonnaise, mashed potatoes, and cake. All guests ate the chicken and gravy; several did not eat the other items.

The family raised its own chickens. Two weeks earlier, the family killed and dressed 8 chickens, which were placed in a freezer until the day of the meal. They were removed during the morning of June 23 and allowed to thaw. At 3 o'clock, they were fried; at 4:30 p.m., the gravy was made in the same frying pan in which the chicken had been prepared. Some gravy was added to the creamed corn. The chicken and gravy were warmed on the top of the stove until 7:30 p.m. when the meal was served.

Salmonella newport was isolated from 8 of 9 stool samples collected from the patients; the negative culture was from the victim with the mildest symptoms. The same organism was isolated from a left-over piece of chicken and from the gravy. A few colonies of *S. newport* were recovered from the creamed corn. The organism was not recovered from other food items remaining from the meal. Attempts to trace the source of contamination were not reported.

(Reported by Richard I. Church, R.S., Supervising Sanitarian, and Philip A. Bearg, M.D., Assistant District Health Officer, San Joaquin Health District, and Philip K. Condit, M.D., Chief, Bureau of Communicable Diseases, California Department of Health.)

CADMIUM POISONING - California

From 30-45 minutes after drinking pink lemonade, 23 school children, aged 5 to 9, experienced abdominal cramps and vomiting in an outbreak due to cadmium contamination. All recovered within 48 hours. The severity of symptoms correlated with the amount of lemonade consumed. Nine other children, who only tasted or consumed small amounts of the lemonade, did not become ill. Each child brought a lunch from home; the lemonade was the only food common to all 32.

The lemonade was prepared by adding the proper amount of city water and ice cubes to 3 cans of a commercially prepared concentrate. The mixture was placed in a 3-gallon cadmium plated war surplus container for the 3-1/2 hour interval between preparation and serving.

Laboratory analysis of a sample of the remaining lemonade revealed 21 parts per million of cadmium, a dosage considered sufficient to cause the symptoms in the children.

(Reported by W. B. Walshe, Chief, Division of Sanitation, and J. B. Askew, M.D., Director of Public Health, San Diego County Department of Public Health, and Dr. Philip K. Condit, Chief, Bureau of Communicable Diseases, California State Department of Health.)

Editor's Note: An unrelated outbreak of cadmium poisoning was reported in MMWR, Vol. 13, p. 258.

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 1, 1964 AND AUGUST 3, 1963 (31ST WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
	1964	1963	Primary	Post-Inf.	1964	1963	Cumulative		1964	1963	Cumulative	
							1964	1963			1964	1963
UNITED STATES...	42	47	42	22	3	9	62	146	2	8	49	121
NEW ENGLAND.....	-	-	3	-	-	-	1	2	-	-	1	2
Maine.....	-	-	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	1	-	-	-	-	1	-	-	-	1
Rhode Island.....	-	-	2	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	-	1	-
MIDDLE ATLANTIC.....	2	7	16	1	-	3	8	37	-	2	8	27
New York City.....	-	-	6	-	-	-	1	-	-	-	1	-
New York, Up-State.....	1	7	3	1	-	1	5	7	-	-	5	5
New Jersey.....	-	-	4	-	-	1	2	1	-	1	2	1
Pennsylvania.....	1	-	3	-	-	1	-	29	-	1	-	21
EAST NORTH CENTRAL...	4	11	4	2	2	-	9	21	1	-	7	14
Ohio.....	1	2	2	-	-	-	2	7	-	-	2	3
Indiana.....	-	-	2	-	1	-	1	2	-	-	-	1
Illinois.....	-	5	-	2	1	-	4	7	1	-	4	6
Michigan.....	3	4	-	-	-	-	1	3	-	-	-	3
Wisconsin.....	-	-	-	-	-	-	1	2	-	-	1	1
WEST NORTH CENTRAL...	4	3	4	-	-	-	3	5	-	-	2	4
Minnesota.....	3	2	1	-	-	-	-	3	-	-	-	3
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	2	-	-	-	1	-
North Dakota.....	-	-	-	-	-	-	-	1	-	-	-	-
South Dakota.....	-	-	1	-	-	-	-	-	-	-	-	-
Nebraska.....	-	1	-	-	-	-	-	1	-	-	-	1
Kansas.....	1	-	2	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	6	2	7	2	-	2	22	20	-	2	17	17
Delaware.....	-	1	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	-	-	2	-	-	-	2	-	-	-	1
West Virginia.....	1	-	-	-	-	1	1	2	-	1	1	2
North Carolina.....	-	-	3	-	-	-	9	3	-	-	5	3
South Carolina.....	1	-	-	-	-	-	2	3	-	-	2	2
Georgia.....	-	-	-	-	-	1	1	4	-	1	1	3
Florida.....	4	1	4	-	-	-	8	6	-	-	7	6
EAST SOUTH CENTRAL...	-	4	3	-	-	3	4	24	-	3	2	22
Kentucky.....	-	2	3	-	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	-	2	4	-	-	1	4
Alabama.....	-	-	-	-	-	3	2	18	-	3	1	16
Mississippi.....	-	2	-	-	-	-	-	2	-	-	-	2
WEST SOUTH CENTRAL...	1	2	2	5	1	1	6	19	1	1	6	19
Arkansas.....	-	-	-	5	-	1	-	2	-	1	-	2
Louisiana.....	-	-	-	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	1	-	-	1	-	2	-	1	-	2	-
Texas.....	1	1	2	-	-	-	4	4	-	-	4	4
MOUNTAIN.....	4	1	2	-	-	-	6	1	-	-	3	1
Montana.....	1	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico.....	3	1	-	-	-	-	1	-	-	-	1	-
Arizona.....	-	-	-	-	-	-	3	-	-	-	-	-
Utah.....	-	-	1	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	21	17	1	12	-	-	3	17	-	-	3	15
Washington.....	1	1	-	5	-	-	-	1	-	-	-	1
Oregon.....	1	3	-	-	-	-	1	2	-	-	1	1
California.....	17	13	-	7	-	-	2	14	-	-	2	13
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	2	-	1	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	4	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 1, 1964 AND AUGUST 3, 1963 (31ST WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis Including Serum Hepatitis						Typhoid Fever	
	1964	Cum.	1964	Cum.	Total 1964	Under 20 years 1964	20 years and over 1964	Age Unknown 1964	Cumulative		1964	Cum.
		1964		1964		1964	1964	1963	1964	1964		
UNITED STATES...	6	241	1	159	535	236	259	40	24,215	26,800	11	245
NEW ENGLAND.....	-	2	1	43	26	12	11	3	2,346	2,895	-	12
Maine.....	-	-	-	39	3	2	1	-	763	1,322	-	-
New Hampshire.....	-	-	-	-	2	-	2	-	170	240	-	-
Vermont.....	-	-	-	-	9	3	4	2	301	46	-	-
Massachusetts.....	-	2	1	4	7	3	4	-	488	836	-	5
Rhode Island.....	-	-	-	-	-	-	-	-	125	69	-	6
Connecticut.....	-	-	-	-	5	4	-	1	499	382	-	1
MIDDLE ATLANTIC.....	-	3	-	7	95	43	52	-	5,437	5,186	1	35
New York City.....	-	-	-	3	11	3	8	-	814	750	-	14
New York, Up-State.....	-	1	-	-	27	14	13	-	2,417	2,300	-	7
New Jersey.....	-	-	-	2	14	3	11	-	972	797	-	1
Pennsylvania.....	-	2	-	2	43	23	20	-	1,234	1,339	1	13
EAST NORTH CENTRAL...	2	31	-	8	104	45	47	12	3,736	4,355	3	63
Ohio.....	1	2	-	-	33	13	18	2	986	1,197	-	26
Indiana.....	-	1	-	1	10	4	6	-	335	397	-	12
Illinois.....	1	19	-	6	25	14	9	2	652	927	1	13
Michigan.....	-	5	-	1	25	12	13	-	1,475	1,640	2	9
Wisconsin.....	-	4	-	-	11	2	1	8	288	194	-	3
WEST NORTH CENTRAL...	3	112	-	22	29	16	13	-	1,325	1,226	-	20
Minnesota.....	-	6	-	11	4	1	3	-	136	186	-	2
Iowa.....	3	70	-	-	7	5	2	-	187	225	-	3
Missouri.....	-	8	-	1	4	3	1	-	331	464	-	7
North Dakota.....	-	2	-	2	1	-	1	-	52	36	-	2
South Dakota.....	-	13	-	1	-	-	-	-	108	72	-	1
Nebraska.....	-	11	-	-	-	-	-	-	33	90	-	1
Kansas.....	-	2	-	7	13	7	6	-	478	153	-	4
SOUTH ATLANTIC.....	1	23	-	31	49	24	25	-	2,276	2,752	2	53
Delaware.....	-	-	-	-	1	-	1	-	43	39	-	-
Maryland.....	-	-	-	-	10	4	6	-	434	334	-	3
Dist. of Columbia..	-	-	-	-	2	1	1	-	37	79	-	-
Virginia.....	-	11	-	-	7	6	1	-	356	583	-	10
West Virginia.....	-	-	-	-	4	4	-	-	355	429	-	-
North Carolina.....	1	3	-	-	6	1	5	-	405	693	-	14
South Carolina.....	-	-	-	7	2	2	-	-	78	116	1	10
Georgia.....	-	6	-	20	-	-	-	-	55	118	1	2
Florida.....	-	3	-	4	17	6	11	-	513	361	-	14
EAST SOUTH CENTRAL...	-	12	-	6	35	20	15	-	1,694	2,646	2	25
Kentucky.....	-	3	-	-	8	5	3	-	664	759	-	7
Tennessee.....	-	4	-	1	13	10	3	-	574	1,038	2	11
Alabama.....	-	3	-	3	8	1	7	-	301	408	-	5
Mississippi.....	-	2	-	2	6	4	2	-	155	441	-	2
WEST SOUTH CENTRAL...	-	24	-	26	54	34	19	1	1,812	1,867	2	16
Arkansas.....	-	4	-	-	4	2	2	-	185	204	1	7
Louisiana.....	-	2	-	5	15	10	5	-	416	363	-	3
Oklahoma.....	-	3	-	-	-	-	-	-	94	90	-	4
Texas.....	-	15	-	21	35	22	12	1	1,117	1,210	1	2
MOUNTAIN.....	-	19	-	2	33	8	3	22	1,473	1,728	-	7
Montana.....	-	-	-	-	7	4	1	2	134	233	-	-
Idaho.....	-	-	-	-	12	-	-	12	181	275	-	-
Wyoming.....	-	-	-	-	-	-	-	-	45	24	-	1
Colorado.....	-	-	-	-	6	-	-	6	400	363	-	-
New Mexico.....	-	1	-	1	6	4	2	-	208	208	-	2
Arizona.....	-	2	-	1	2	-	-	2	336	414	-	4
Utah.....	-	15	-	-	-	-	-	-	127	198	-	-
Nevada.....	-	1	-	-	-	-	-	-	42	13	-	-
PACIFIC.....	-	15	-	14	110	34	74	2	4,116	4,145	1	14
Washington.....	-	-	-	13	8	3	5	-	458	712	1	2
Oregon.....	-	2	-	-	11	2	7	2	462	528	-	-
California.....	-	13	-	1	87	28	59	-	2,986	2,773	-	12
Alaska.....	-	-	-	-	3	1	2	-	129	103	-	-
Hawaii.....	-	-	-	-	1	-	-	-	81	28	-	-
Puerto Rico	-	-	1	9	9	8	1	-	508	474	-	9

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 1, 1964 AND AUGUST 3, 1963 (31ST WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis		Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals			
		1964	1964	Cumulative		1964	1963	1964	Cum. 1964	1964	Cum. 1964	1964	Cum. 1964
				1964	1963								
UNITED STATES...	1,744	43	1,734	1,618	3,911	3,333	8	151	9	197	69	2,821	
NEW ENGLAND.....	183	1	49	101	377	200	-	7	-	1	4	28	
Maine.....	33	-	5	17	62	8	-	-	-	-	3	24	
New Hampshire.....	2	-	1	4	17	-	-	-	-	-	-	1	
Vermont.....	20	-	1	3	16	2	-	-	-	-	1	2	
Massachusetts.....	91	1	20	48	58	17	-	7	-	1	-	1	
Rhode Island.....	13	-	7	9	13	8	-	-	-	-	-	-	
Connecticut.....	24	-	15	20	211	165	-	-	-	-	-	-	
MIDDLE ATLANTIC.....	227	11	224	223	96	252	2	15	-	-	2	81	
New York City.....	27	1	32	35	1	10	-	-	-	-	-	-	
New York, Up-State.....	138	3	65	68	84	65	1	5	-	-	2	77	
New Jersey.....	48	4	76	32	8	11	-	5	-	-	-	-	
Pennsylvania.....	14	3	51	88	3	166	1	5	-	-	-	4	
EAST NORTH CENTRAL....	354	5	245	254	349	232	3	27	1	16	9	392	
Ohio.....	81	-	64	73	23	12	2	8	-	1	4	208	
Indiana.....	52	1	38	31	135	87	-	3	-	2	-	19	
Illinois.....	33	2	62	45	48	40	1	9	1	10	-	78	
Michigan.....	114	1	54	78	85	53	-	6	-	1	2	39	
Wisconsin.....	74	1	27	27	58	40	-	1	-	2	3	48	
WEST NORTH CENTRAL....	37	2	112	98	111	108	1	9	3	42	21	908	
Minnesota.....	1	-	26	20	3	3	-	1	-	2	4	271	
Iowa.....	8	-	6	5	15	28	-	3	-	1	8	328	
Missouri.....	4	-	53	32	1	1	1	3	1	22	5	144	
North Dakota.....	20	1	13	5	72	44	-	-	-	-	2	48	
South Dakota.....	4	-	-	5	-	2	-	1	2	9	1	72	
Nebraska.....	-	-	6	21	-	-	-	-	-	-	-	24	
Kansas.....	NN	1	8	10	20	30	-	1	-	8	1	21	
SOUTH ATLANTIC.....	76	5	376	304	426	196	1	45	-	20	12	378	
Delaware.....	-	-	6	2	1	-	-	-	-	-	-	-	
Maryland.....	1	-	25	48	17	2	-	3	-	-	-	-	
Dist. of Columbia..	-	-	12	6	4	-	-	-	-	1	-	-	
Virginia.....	10	-	43	72	148	46	-	5	-	4	4	205	
West Virginia.....	44	-	26	16	140	79	-	1	-	-	1	24	
North Carolina.....	4	1	65	52	2	5	-	12	-	4	1	5	
South Carolina.....	1	-	49	14	32	24	1	4	-	-	-	1	
Georgia.....	-	1	52	23	9	-	-	3	-	11	1	78	
Florida.....	16	3	98	71	73	40	-	17	-	-	5	65	
EAST SOUTH CENTRAL....	143	2	154	122	733	678	-	15	1	22	5	345	
Kentucky.....	31	1	51	26	70	39	-	2	-	1	1	47	
Tennessee.....	64	-	51	53	590	608	-	8	1	15	4	283	
Alabama.....	43	1	34	21	26	2	-	4	-	3	-	15	
Mississippi.....	5	-	18	22	47	29	-	1	-	3	-	-	
WEST SOUTH CENTRAL....	233	3	156	156	512	562	1	15	3	68	8	400	
Arkansas.....	-	-	19	10	5	1	-	5	3	37	1	99	
Louisiana.....	-	2	105	63	-	3	-	3	-	3	-	32	
Oklahoma.....	9	-	7	29	10	7	-	-	-	18	1	69	
Texas.....	224	1	25	54	497	551	1	7	-	10	6	200	
MOUNTAIN.....	198	2	64	55	748	644	-	4	1	28	4	101	
Montana.....	45	-	-	3	49	16	-	-	-	16	-	-	
Idaho.....	19	-	3	4	50	57	-	-	-	-	-	-	
Wyoming.....	-	2	5	4	11	10	-	1	-	4	-	-	
Colorado.....	35	-	11	14	303	214	-	-	-	-	2	8	
New Mexico.....	-	-	26	4	171	177	-	1	-	-	1	47	
Arizona.....	48	-	5	9	85	56	-	1	-	-	1	44	
Utah.....	51	-	6	14	79	56	-	1	1	8	-	-	
Nevada.....	-	-	8	3	-	58	-	-	-	-	-	2	
PACIFIC.....	293	12	354	305	559	461	-	14	-	-	4	188	
Washington.....	8	1	26	24	51	75	-	1	-	-	-	-	
Oregon.....	60	-	20	22	10	10	-	-	-	-	-	6	
California.....	207	10	289	240	438	356	-	12	-	-	4	182	
Alaska.....	-	-	7	11	10	5	-	-	-	-	-	-	
Hawaii.....	18	1	12	8	50	15	-	1	-	-	-	-	
Puerto Rico	68	-	28	6	4	10	-	48	-	-	-	15	

Morbidity and Mortality Weekly Report

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Table 4 (C). TOTAL DEATHS UNDER 1 YEAR OF AGE IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	7/11	7/18	7/25	8/1		7/11	7/18	7/25	8/1
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.....	10	11	12	14	Atlanta, Ga.....	7	11	11	15
Bridgeport, Conn.....	5	1	-	6	Baltimore, Md.....	30	18	24	16
Cambridge, Mass.....	-	1	1	2	Charlotte, N.C.....	3	3	4	9
Fall River, Mass.....	-	-	-	-	Jacksonville, Fla.....	7	7	5	7
Hartford, Conn.....	5	7	5	5	Miami, Fla.....	1	2	3	6
Lowell, Mass.....	4	-	2	1	Norfolk, Va.....	5	6	6	8
Lynn, Mass.....	2	1	1	-	Richmond, Va.....	6	7	11	9
New Bedford, Mass.....	-	1	1	-	Savannah, Ga.....	6	2	3	1
New Haven, Conn.....	2	8	3	1	St. Petersburg, Fla.....	-	2	3	1
Providence, R.I.....	4	2	10	6	Tampa, Fla.....	2	5	3	8
Somerville, Mass.....	1	-	1	1	Washington, D.C.....	15	13	43	15
Springfield, Mass.....	5	2	-	-	Wilmington, Del.....	2	3	3	4
Waterbury, Conn.....	-	2	2	3	EAST SOUTH CENTRAL:				
Worcester, Mass.....	6	3	4	4	Birmingham, Ala.....	7	7	10	9
MIDDLE ATLANTIC:					Chattanooga, Tenn.....	-	5	-	4
Albany, N.Y.....	8	1	4	5	Knoxville, Tenn.....	1	3	4	3
Allentown, Pa.....	-	1	-	-	Louisville, Ky.....	3	5	3	17
Buffalo, N.Y.....	16	7	11	9	Memphis, Tenn.....	6	15	7	17
Camden, N.J.....	1	4	2	2	Mobile, Ala.....	11	3	5	2
Elizabeth, N.J.....	1	3	-	1	Montgomery, Ala.....	-	1	1	4
Erie, Pa.....	3	3	6	1	Nashville, Tenn.....	3	10	3	7
Jersey City, N.J.....	5	7	2	-	WEST SOUTH CENTRAL:				
Newark, N.J.....	16	8	4	14	Austin, Tex.....	-	3	4	1
New York City, N.Y.....	87	89	83	76	Baton Rouge, La.....	4	9	3	1
Paterson, N.J.....	6	9	1	3	Corpus Christi, Tex.....	2	2	-	1
Philadelphia, Pa.....	32	36	40	35	Dallas, Tex.....	12	7	10	13
Pittsburgh, Pa.....	12	10	7	12	El Paso, Tex.....	2	2	2	7
Reading, Pa.....	2	4	-	3	Fort Worth, Tex.....	7	8	9	3
Rochester, N.Y.....	2	5	8	5	Houston, Tex.....	29	12	9	23
Schenectady, N.Y.....	1	-	1	1	Little Rock, Ark.....	3	4	8	6
Scranton, Pa.....	-	-	2	-	New Orleans, La.....	7	22	9	19
Syracuse, N.Y.....	4	3	8	10	Oklahoma City, Okla.....	11	7	4	8
Trenton, N.J.....	6	4	5	4	San Antonio, Tex.....	9	7	4	10
Utica, N.Y.....	4	-	2	-	Shreveport, La.....	12	7	6	2
Yonkers, N.Y.....	2	3	2	-	Tulsa, Okla.....	4	6	3	5
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.....	6	2	1	4	Albuquerque, N. Mex.....	5	6	4	1
Canton, Ohio.....	5	1	1	4	Colorado Springs, Colo...	1	-	2	3
Chicago, Ill.....	38	65	63	40	Denver, Colo.....	13	13	10	9
Cincinnati, Ohio.....	20	5	8	13	Ogden, Utah.....	-	3	-	1
Cleveland, Ohio.....	19	13	8	14	Phoenix, Ariz.....	7	3	2	6
Columbus, Ohio.....	6	7	6	6	Pueblo, Colo.....	-	1	1	1
Dayton, Ohio.....	4	5	2	4	Salt Lake City, Utah.....	8	2	4	1
Detroit, Mich.....	11	36	14	23	Tucson, Ariz.....	3	2	1	2
Evansville, Ind.....	5	1	2	4	PACIFIC:				
Flint, Mich.....	4	3	5	4	Berkeley, Calif.....	1	1	-	-
Fort Wayne, Ind.....	-	3	3	3	Fresno, Calif.....	3	3	5	4
Gary, Ind.....	2	3	1	4	Glendale, Calif.....	2	3	-	1
Grand Rapids, Mich.....	3	2	3	4	Honolulu, Hawaii.....	3	4	5	5
Indianapolis, Ind.....	12	13	11	7	Long Beach, Calif.....	1	7	5	3
Madison, Wis.....	2	5	3	1	Los Angeles, Calif.....	34	55	38	26
Milwaukee, Wis.....	6	6	5	28	Oakland, Calif.....	6	7	6	5
Peoria, Ill.....	2	2	5	4	Pasadena, Calif.....	-	2	-	1
Rockford, Ill.....	4	2	4	5	Portland, Oreg.....	4	12	9	6
South Bend, Ind.....	-	-	2	5	Sacramento, Calif.....	4	4	4	3*
Toledo, Ohio.....	4	5	6	4	San Diego, Calif.....	11	4	9	5
Youngstown, Ohio.....	2	2	2	4	San Francisco, Calif.....	7	4	5	8
WEST NORTH CENTRAL:					San Jose, Calif.....	3	4	2	5
Des Moines, Iowa.....	4	4	3	1	Seattle, Wash.....	11	5	7	4
Duluth, Minn.....	-	2	2	1	Spokane, Wash.....	4	4	3	4
Kansas City, Kans.....	10	6	5	3	Tacoma, Wash.....	2	4	5	2*
Kansas City, Mo.....	9	8	7	9	San Juan, P.R..... (---) (---) (---) (---)				
Lincoln, Nebr.....	2	-	1	1	^o Current Week Mortality for 108 Selected Cities				
Minneapolis, Minn.....	12	7	8	10	4(A) Total Mortality, all ages..... 11,743				
Omaha, Nebr.....	4	5	4	8	4(B) Pneumonia-Influenza Deaths, all ages..... 400				
St. Louis, Mo.....	16	7	16	13	4(C) Total Deaths under 1 Year of Age..... 796				
St. Paul, Minn.....	6	2	2	6	4(D) Total Deaths, Persons 65 years and over..... 6,588				
Wichita, Kans.....	1	2	-	6					

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

INFANT DEATHS IN 108 CITIES

The weekly average number of infant deaths in 108 cities for the four-week period ending August 1 was 782 as compared with an expected weekly average of 717, an excess of 65.

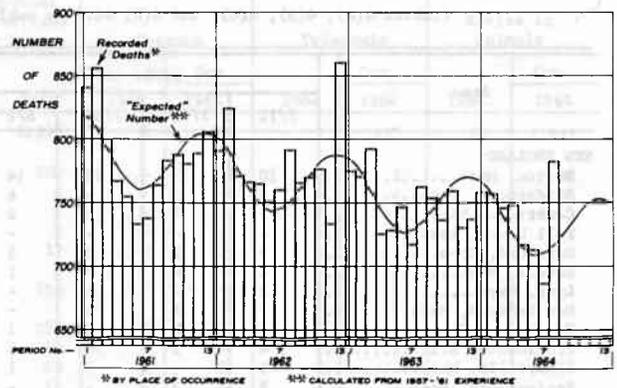
	Week Ending				4 Week Total	Weekly Average
	7/11	7/18	7/25	8/1		
Observed	785	797	749	796	3,127	782
Expected	714	716	718	720	2,868	717
Excess	71	81	31	76	259	65

The table below which presents four-week averages since the first of the year for each geographic division shows that in the past four-week period, all divisions reported an increase over the previous period, especially the Middle Atlantic, East North Central and South Atlantic. The reported increase may reflect delayed processing of death certificates or an actual increase in the number of infant deaths.

FOUR-WEEK AVERAGE NUMBER OF INFANT DEATHS
by Geographic Division, 1964

1964	NE	MA	ENC	WNC	SA	ESC	WSC	MT	PAC	1964 U.S.	
										Obs.	Exp.
12/28-1/18	46	177	156	50	70	51	104	27	79	760	766
1/25-2/15	38	192	148	46	77	46	90	28	92	757	756
2/22-3/14	39	175	162	52	76	42	80	30	90	745	741
3/21-4/11	44	181	154	54	74	50	88	25	79	748	726
4/18-5/9	38	174	153	52	68	40	87	28	77	717	716
5/16-6/6	38	178	144	51	78	36	90	21	79	714	709
6/13-7/4	36	170	138	48	62	39	82	26	85	686	712
7/11-8/1	42	190	160	52	84	44	92	29	88	782	717

DEATHS UNDER ONE YEAR OF AGE IN 108 U.S. CITIES
Average Number per Week by Four-Week Periods



(See table, page 271)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 12,000 IS PUBLISHED BY THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES, SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

LAWRENCE K. ALTMAN, M.D., EDITOR
 MORBIDITY AND MORTALITY WEEKLY REPORT
 COMMUNICABLE DISEASE CENTER
 ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: - - - DATA NOT AVAILABLE
 . QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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